SEQUENCE LISTING

<110> THE TRUSTEES OF COLUMBIA UNIVERSITY IN THE CITY OF

<120> GENE ENCODING NADE, P75 NTR- ASSOCIATED CELL DEATH EXECUTOR AND USES THEREOF

<130> 59131apct

<140> PCT/US00/15621
<141> 2000-06-07

<160> 56

<170> PatentIn Ver. 2.1

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atcctcgagc gatcatggcc aatgtccac 29

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<223> Description of Artificial Sequence:Unknown primer

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<212> DNA
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<400> 9
tgtgcctccc tagcctttct ccggat 26

<210> 10
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<220>
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<223> Description of Artificial Sequence: Unknown primer

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atcggatccg ttagacagct cccccat 27

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<210> 14
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<212> DNA
<213> Artificial Sequence

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<400> 14
atcggatccg atctctctca tctcctc 27

<210> 15
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
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atcggatccg tcattcatct gcctgtt 27

<210> 16
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<212> DNA
<213> Artificial Sequence

<220>
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atcggatccg aagttagggg caagtcg 27

<210> 17
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<212> DNA
<213> Artificial Sequence

<220>
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<210> 18
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<210> 19
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<210> 20
<211> 33
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Unknown primer

<400> 20
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<210> 21
<211> 26
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<213> Artificial Sequence

<220>
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<210> 22
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
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<400> 22
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<210> 24
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<212> DNA
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<400> 24
tagacaattt ctcgcctgta gctccct 27

<210> 25
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<212> DNA
<213> Artificial Sequence

<220>

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<210> 26
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<212> DNA
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<220>
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<400> 26
tttctcagct gtgcctccct aagcttt 27

<210> 27
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<400> 27
agggaggcac aggcgagaaa ttgtcta 27

<210> 28
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tagacaattt ctcgcctgtg cctccct 27

<210> 29
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<400> 29

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<210> 30
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<223> Description of Artificial Sequence:Unknown primer

<400> 30
tgtgcctccc tagcctttct ccggat 26

<210> 31
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<220>
<223> Description of Artificial Sequence:Unknown primer

<400> 31
ctagctagca tcatggtgag caagggcgag 30

<210> 32
<211> 28
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Unknown primer

<400> 32
ccgctcgagt cttgtacagc tcgtccat 28

<210> 33
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<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:Unknown primer

<400> 33
aattgtctac gcatccttat gggggagctg tctaac 36

<210> 34
<211> 124
<212> PRT
<213> Mus musculus

<400> 34
Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln
1 5 10 15

Asn Gly Glu Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro
20 25 30

Ala Gly Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His
35 40 45

Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile
50 55 60

Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met
65 70 75 80

Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu
85 90 95

Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn
100 105 110

His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 35
<211> 111
<212> PRT
<213> Homo sapiens

<400> 35
Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
1 5 10 15

Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
20 25 30

Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
35 40 45

Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
50 55 60

Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
65 70 75 80

Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
85 90 95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
100 105 110

<210> 36
<211> 13
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Segment of CZyxin protein

<400> 36
Leu Thr Met Lys Glu Val Glu Glu Leu Glu Leu Leu Thr
1 5 10

<210> 37
<211> 13
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Segment of MAPKK protein

<400> 37
Ala Leu Gln Lys Lys Leu Glu Glu Leu Glu Leu Asp Glu
1 5 10

<210> 38
<211> 10
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism:Segment of PKI protein

<400> 38
Leu Ala Leu Lys Leu Ala Gly Leu Asp Ile
1 5 10

<210> 39
<211> 9

<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Segment of TFIII A protein

<400> 39
Leu Pro Val Leu Glu Asn Leu Thr Leu
1 5

<210> 40
<211> 9
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism:Segment of RevHIV-1 protein

<400> 40
Leu Pro Pro Leu Glu Arg Leu Thr Leu
1 5

<210> 41
<211> 12
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism:Segment of RanBP1 protein

<400> 41
Lys Val Ala Glu Lys Leu Glu Ala Leu Ser Val Arg
1 5 10

<210> 42
<211> 13
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism:Segment of FMRP protein

<400> 42
Glu Val Asp Gln Leu Arg Leu Glu Arg Leu Gln Ile Asp

1 5 10

<210> 43
<211> 8
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism:Segment of Gle1 protein

<400> 43
Leu Pro Leu Gly Lys Leu Thr Leu
1 5

<210> 44
<211> 14
<212> PRT
<213> Unknown Organism

<220>
<223> Description of Unknown Organism: Segment of RexHTLV-1 protein

<400> 44
Ala Leu Ser Ala Gln Leu Tyr Ser Ser Leu Ser Leu Asp Ser
1 5 10

<210> 45
<211> 128
<212> PRT
<213> Mus musculus

<400> 45
Met Glu Ser Lys Asp Gln Gly Val Lys Asn Leu Asn Met Glu Asn Asp
1 5 10 15

His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Arg
20 25 30

Arg Glu Pro Ala Val Ala Leu Ile Ser Glu Ala Gly Lys Asn Cys Ala
35 40 45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ala His
50 55 60

Tyr Arg Trp Asp Leu Met Gln Arg Val Gly Glu Pro Gln Gly Arg Met
65 70 75 80

```
Arg Glu Glu Asn Val Gln Arg Phe Gly Gly Asp Val Arg Gln Leu Met
                85                  90                  95

Glu Lys Leu Arg Glu Arg Gln Leu Ser His Ser Leu Arg Ala Val Ser
            100                 105                 110

Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
        115                 120                 125
```

<210> 46
<211> 127
<212> PRT
<213> Homo sapiens

<400> 46

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Met Glu Ser Lys Glu Glu Arg Ala Leu Asn Asn Leu Ile Val Glu Asn
  1               5                  10                  15

Val Asn Gln Glu Asn Asp Glu Lys Asp Glu Lys Glu Gln Val Ala Asn
            20                  25                  30

Lys Gly Glu Pro Leu Ala Leu Pro Leu Asn Val Ser Glu Tyr Cys Val
        35                  40                  45

Pro Arg Gly Asn Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Leu Gln
    50                  55                  60

Tyr Arg Trp Asp Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met
65                  70                  75                  80

Arg Glu Glu Met Glu Arg Ile Gly Glu Glu Val Arg Gln Leu Met Glu
                85                  90                  95

Lys Leu Arg Glu Asp Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr
            100                 105                 110

Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
        115                 120                 125
```

<210> 47
<211> 125
<212> PRT
<213> Homo sapiens

<400> 47

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Met Glu Ser Lys Glu Lys Arg Ala Val Asn Ser Leu Ser Met Glu Asn
```

```
  1               5                  10                  15

Ala Asn Gln Glu Asn Glu Glu Lys Glu Gln Val Ala Asn Lys Gly Glu
            20                  25                  30

Pro Leu Ala Leu Pro Leu Asp Ala Gly Glu Tyr Cys Val Pro Arg Gly
        35                  40                  45

Asn Arg Arg Phe Pro Val Arg Gln Pro Ile Leu Gln Tyr Arg Trp Asp
    50                  55                  60

Ile Met His Arg Leu Gly Glu Pro Gln Ala Arg Met Pro Arg Glu Glu
65                  70                  75                  80

Asn Met Glu Arg Ile Gly Glu Glu Val Arg Trp Leu Met Glu Lys Leu
                85                  90                  95

Arg Glu Lys Gln Leu Ser His Ser Leu Arg Ala Val Ser Thr Asp Pro
            100                 105                 110

Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
        115                 120                 125
```

<210> 48
<211> 128
<212> PRT
<213> Rattus norvegicus

<400> 48

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Met Glu Ser Lys Asp Gln Gly Ala Lys Asn Leu Asn Met Glu Asn Asp
  1               5                  10                  15

His Gln Lys Lys Glu Glu Lys Glu Glu Lys Pro Gln Asp Thr Ile Lys
            20                  25                  30

Arg Glu Pro Val Val Ala Pro Thr Phe Glu Ala Gly Lys Asn Cys Ala
        35                  40                  45

Pro Arg Gly Gly Arg Arg Arg Phe Arg Val Arg Gln Pro Ile Ser His
    50                  55                  60

Tyr Arg Trp Asp Leu Met His Arg Val Gly Glu Pro Gln Gly Arg Met
65                  70                  75                  80

Arg Glu Glu Asn Val Gln Arg Phe Gly Glu Asp Met Arg Gln Leu Met
                85                  90                  95

Glu Lys Leu Arg Glu Arg Trp Leu Ser His Ser Leu Arg Ala Val Ser
            100                 105                 110
```

```
Thr Asp Pro Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
        115                 120                 125
```

<210> 49
<211> 117
<212> PRT
<213> Rattus norvegicus

<400> 49

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Met Ala Ser Lys Val Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys
  1               5                  10                  15

Asp Lys Lys Asn Lys Lys Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
             20                  25                  30

Glu Ser His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
         35                  40                  45

Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
     50                  55                  60

Pro Asn Arg His Val Asp His Ser Glu Gly Gly Glu Glu Val Gly Arg
 65                  70                  75                  80

Phe Val Gly Gln Met Glu Ala Lys Arg Lys Ser Lys Glu Gln Gln Met
                 85                  90                  95

Arg Pro Tyr Thr Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr Asp
            100                 105                 110

Phe Cys Leu Ile Pro
        115
```

<210> 50
<211> 118
<212> PRT
<213> Mus musculus

<400> 50

```
Met Ala Ser Lys Phe Lys Gln Val Ile Leu Asp Leu Thr Val Glu Lys
  1               5                  10                  15

Asp Lys Lys Asp Lys Arg Gly Gly Lys Ala Ser Lys Gln Ser Glu Glu
             20                  25                  30

Glu Pro His His Leu Glu Glu Val Glu Asn Lys Lys Pro Gly Gly Asn
```

```
         35                  40                  45

Val Arg Arg Lys Val Arg Arg Leu Val Pro Asn Phe Leu Trp Ala Ile
     50                  55                  60

Pro Asn Arg His Val Asp Arg Asn Glu Gly Gly Glu Asp Val Gly Arg
 65                  70                  75                  80

Phe Val Val Gln Gly Thr Glu Val Lys Arg Lys Thr Thr Glu Gln Gln
                 85                  90                  95

Val Arg Pro Tyr Arg Arg Phe Arg Thr Pro Glu Pro Asp Asn His Tyr
            100                 105                 110

Asp Phe Cys Leu Ile Pro
        115
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<210> 51
<211> 111
<212> PRT
<213> Homo sapiens

<400> 51

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Met Ala Asn Ile His Gln Glu Asn Glu Glu Met Glu Gln Pro Met Gln
  1               5                  10                  15

Asn Gly Glu Glu Asp Arg Pro Leu Gly Gly Gly Glu Gly His Gln Pro
            20                  25                  30

Ala Gly Asn Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg
        35                  40                  45

Trp Ala Ile Pro Asn Arg Gln Ile Asn Asp Gly Met Gly Gly Asp Gly
     50                  55                  60

Asp Asp Met Glu Ile Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys
 65                  70                  75                  80

Leu Arg Glu Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu
                 85                  90                  95

Leu Ser Asn His His Asp His His Asp Glu Phe Cys Leu Met Pro
            100                 105                 110
```

<210> 52
<211> 120
<212> PRT
<213> Rattus norvegicus

<400> 52
Met Glu Gln Pro Leu Gln Asn Gly Gln Glu Asp Arg Pro Val Gly Gly
1 5 10 15

Gly Glu Gly His Gln Pro Ala Ala Ala Asn Asn Asn His Asn His Asn
20 25 30

His Asn His Asn His Ser His Asn His Asn His His Arg Arg Gly Gln
35 40 45

Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile Pro Asn Arg Trp
50 55 60

Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met Glu Met Phe Met
65 70 75 80

Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu Leu Gln Leu Arg
85 90 95

Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn His His Asp His
100 105 110

His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 53
<211> 124
<212> PRT
<213> Mus musculus

<400> 53
Met Ala Asn Val His Gln Glu Asn Glu Glu Met Glu Gln Pro Leu Gln
1 5 10 15

Asn Gly Gln Glu Asp Arg Pro Val Gly Gly Gly Glu Gly His Gln Pro
20 25 30

Ala Ala Asn Asn Asn Asn Asn Asn His Asn His Asn His Asn His His
35 40 45

Arg Arg Gly Gln Ala Arg Arg Leu Ala Pro Asn Phe Arg Trp Ala Ile
50 55 60

Pro Asn Arg Gln Met Asn Asp Gly Leu Gly Gly Asp Gly Asp Asp Met
65 70 75 80

Glu Met Phe Met Glu Glu Met Arg Glu Ile Arg Arg Lys Leu Arg Glu
85 90 95

Leu Gln Leu Arg Asn Cys Leu Arg Ile Leu Met Gly Glu Leu Ser Asn

100 105 110

His His Asp His His Asp Glu Phe Cys Leu Met Pro
115 120

<210> 54
<211> 109
<212> PRT
<213> Homo sapiens

<400> 54
Met Glu Asn Val Pro Lys Glu Asn Lys Val Val Glu Lys Ala Pro Val
1 5 10 15

Gln Asn Glu Ala Pro Ala Leu Gly Gly Gly Glu Tyr Gln Glu Pro Gly
20 25 30

Gly Asn Val Lys Gly Val Trp Ala Pro Pro Ala Pro Gly Phe Gly Glu
35 40 45

Asp Val Pro Asn Arg Leu Val Asp Asn Ile Asp Met Ile Asp Gly Asp
50 55 60

Asp Met Glu Arg Phe Met Glu Glu Met Arg Glu Leu Arg Arg Lys Ile
65 70 75 80

Arg Glu Leu Gln Leu Arg Tyr Ser Leu Arg Ile Leu Ile Gly Asp Pro
85 90 95

Pro His His Asp His His Asp Glu Phe Cys Leu Met Pro
100 105

<210> 55
<211> 700
<212> DNA
<213> Mus musculus

<400> 55
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gtctacgcat ccttatgggg gagctgtcta accaccacga tcaccatgat gaattctgcc 540
ttatgccttg acttcggtca ttcccccctg agatccatac tgtgactccc gctgtagccc 600
ttttcctcgc attttcctga catgccttta atgacccgtt tgtggtgagc cttgtgttat 660

ttccatgcca tgtgccaggt ggggcttgtg ttgccagtga 700

<210> 56
<211> 891
<212> DNA
<213> Homo sapiens

<400> 56
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gggaggggct ttaattggag gccccgtaga ggacgcgcgg aacttctaag gtgggaaaaa 180
acgaaattaa aaaatccttt gatatcaggg ctctgaatcc tgctggtcag agcaccaagc 240
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tggagaggaa gaccgccctt tgggaggagg tgaaggccac cagcctgcca ggaaatcgac 420
ggggacaggc tcgccgactt gcccctaatt ttcgatgggc catacccaat aggcagatca 480
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catgagatta atactgtgat tcccgctgtt tttctttttc cttgcatttt cctaatatgc 720
ctttactgat ccgtttgctg tgaaccctat gttatttcca tgtgtcaagt gggtcttgtg 780
ttgccagctt ctatttgaag attgcctttg cactcagtgt aagtttctgt cagcagtagt 840
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